

Appl. No. 09/939,166
Amtd. Date September 15, 2004
Response to Office Action dated April 15, 2004

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (currently amended): A system for stimulating the healing of tissue, comprising:
a porous pad;
an airtight dressing;
~~a means for connecting a distal end of a conduit connected to through the dressing;~~
a canister removably connected to a proximal end of the conduit;
an electric pump for applying negative pressure to a wound site;
~~a first hydrophobic filter positioned between said canister and said electric pump means for applying negative pressure; and~~
~~an odor vapor second filter positioned between said first hydrophobic filter and said electric pump means for applying negative pressure; and~~
~~a means for managing a power supply source to power said electric pump.~~

2 (currently amended): The system of claim 1 wherein said hydrophobic first filter and said odor vapor second filter are incorporated into an opening as an integral part of said canister.

3 (currently amended): The system of claim 1 further comprising an access port for sampling wound fluids, said access port being connected to said conduit and having a resealable membrane operable to maintain a seal after being punctured.

4 (currently amended): The system of claim 1 further comprising a means clamp for securing said system to a pole stationary object.

5 (currently amended): The system of claim 1, further comprising a portable housing for said electric pump, said portable housing having a clamp for securing said system to

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~~a pole wherein said means for applying negative pressure to the wound site comprises an electric pump housed within a portable housing.~~

6 (cancelled).

7 (original): The system of claim 1 wherein said porous pad is comprised of an open cell polymer.

8 (currently amended): The system of claim 1, further comprising 6 wherein said means for managing said power supply source is comprised of deactivating a backlight to a display after a predetermined interval.

9 (currently amended): The system of claim 1, further comprising a motor control that determines a tentative motor drive power for reaching a target pressure and which withholds 6 wherein said means for managing said power supply source is comprised of preventing electric power from reaching an electric motor until unless the tentative motor drive power is sufficient power has been generated to activate said motor.

10 (original): The system of claim 1 wherein said conduit is comprised of longitudinal partitions that form a drainage conduit and a pressure detection conduit.

11 (original): The system of claim 10 wherein a plurality of said detection conduits are arranged about said drainage conduit.

12 (currently amended): The system of claim 10, further comprising a resealable access port for sampling fluids, said access port comprising an appendage of wherein said means for sampling fluids is comprised of a resealable access port to said drainage conduit.

13 (currently amended): A system for stimulating the healing of tissue, comprising: a porous pad; an airtight dressing; a means for connecting a distal end of a drainage tube

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connected to ~~through~~ said dressing; a canister removably connected to a proximal end of the drainage tube; a self-contained pumping mechanism for applying negative pressure to the wound site; the pumping mechanism including an electric motor; and a power management motor control that determines a tentative motor drive power for reaching a target pressure and which withholds electric power from the electric motor unless the tentative motor drive power is sufficient to activate said electric motor means for managing a power supply to said self-contained pumping mechanism.

14 (currently amended): The system of claim 13, further comprising wherein said means for managing said power supply comprises deactivating a backlight to a display after a predetermined interval.

15 (cancelled).

16 (currently amended): The system of claim 13 further comprising an access port means for sampling wound fluids, said access port being connected to said drainage tube and having a resealable membrane operable to maintain a seal after being punctured.

17 (currently amended): The system of claim 13 further comprising a clamp means for securing said system to a pole stationary object.

18 (previously presented): The system of claim 13 wherein said porous pad is comprised of a polyvinyl alcohol foam.

19 (currently amended): A system for stimulating the healing of tissue, comprising:
a porous pad;
an airtight dressing;
an electric pump for applying negative pressure to a wound site;
a canister removably connected to said electric pump means for applying negative pressure;

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a housing for containment of said canister and said electric pump means for applying negative pressure;

a clamp means for securing said housing to a pole stationary object; and
a power management motor control that determines a tentative drive power for reaching a target pressure and which withholds electric power from said electric pump unless the tentative drive power is sufficient to activate means for managing a power supply for said electric pump.

20 (cancelled).

21 (currently amended): The system of claim 19, further comprising wherein said power supply for said electric pump comprises a portable power unit for supplying power to said electric pump.

22 (cancelled).

23 (currently amended): The system of claim 19, further comprising wherein said means for managing a power supply is comprised of deactivating a backlight to a display on said housing after a predetermined interval.

24 (cancelled).

25 (original): The system of claim 19 wherein said porous pad is comprised of a polyvinyl alcohol foam.

26 (previously presented): The system of claim 19 further comprising a conduit having a proximal end and a distal end, and wherein said proximal end is removably connected to said canister and said distal end is in fluid communication with the wound site.

27 (original): The system of claim 26 wherein said conduit is comprised of longitudinal partitions that form a drainage conduit and a pressure detection conduit.

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28 (previously presented): The system of claim 27 wherein a plurality of said detection conduits are arranged about said drainage conduit.

29 (currently amended): The system of claim 26 further comprising a ~~means~~
resealable access port for sampling wound fluids, said access port being connected to said
conduit and having a resealable membrane operable to maintain a seal after being punctured.

30 (currently amended): The system of claim 29 wherein said ~~means for sampling~~
~~wound fluids is comprised of a resealable access port comprises an appendage of said conduit.~~

31 (previously presented): A system for stimulating the healing of tissue, comprising:
a porous pad;
an airtight dressing;
a means for applying negative pressure to a wound site;
a power management motor control that determines a tentative drive power for reaching a
target pressure and which withholds electric power from said means for applying negative
pressure unless the tentative drive power is sufficient to activate means for managing a power
supply to said means for applying said negative pressure; and
a means for varying said negative pressure over a time interval.

32 (original): The system of claim 31 wherein said means for varying said negative pressure comprises adjusting actual pressure to meet a varying target pressure.

33 (original): The system of claim 32 wherein said varying target pressure oscillates between a target maximum and a target minimum pressure.

34 (currently amended): The system of claim 31, further comprising wherein said
means for managing said power supply is comprised of deactivating a backlight to a display of said system after a predetermined interval.

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35. (cancelled).

36. (currently amended) A system for stimulating the healing of tissue, comprising:
a porous pad for application at a wound site;
an airtight dressing to cover the porous pad;
a variable frequency an oscillating pump for applying negative pressure to a the wound
site; and
a means for maximizing control system to determine an optimum drive frequency for
driving the variable frequency pump in order to maximize pump flow rate over a pressure range;
and
a means for managing a power supply to said oscillating pump.

37 (cancelled).

38 (currently amended): The system of claim 36, further comprising wherein said
means for varying said drive frequency comprises:
a pressure sensor for measuring pressure across said pump; and
a control system for determining optimum drive frequency for said pump relative to
pressure detected by said pressure sensor; and
a variable frequency drive circuit for driving said pump at said optimum drive frequency.

39 (currently amended): The system of claim 36, further comprising wherein said
means for managing a power supply is comprised of deactivating a backlight to a display of said
system after a predetermined interval.

40 (currently amended): The system of claim 36, further comprising a power
management control that determines a tentative drive power for reaching a target pressure and
which withholds electric power from said means for applying negative pressure unless the
tentative drive power is sufficient to activate wherein said means for managing a power supply is

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~~comprised of preventing electric power from reaching said oscillating pump until sufficient power has been generated to activate said oscillating pump.~~